## PATENT COOPERATION T







## INTERNATIONAL PRELIMINARY EXAMINATION REPOR

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference	<u> </u>	See Notification of Transmittal of International
7628/DQ	_	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)
Internation	al application No.	International filing date (day/mon	th/year) Priority date (day/month/year)
PCT/US	99/22395	24/09/1999	25/09/1998
C11D17/			
THE PRO	OCTER & GAMBLE COM	IPANY et al.	
and is	s transmitted to the applican	t according to Article 36.	ed by this International Preliminary Examining Authority
2. This	REPORT consists of a total	of 5 sheets, including this cover	sheet.
( (	een amended and are the b	pasis for this report and/or sheets 607 of the Administrative Instruc	he description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).
	<u> </u>		
3. This	report contains indications r	elating to the following items:	
1	Basis of the report		
11	☐ Priority		•
111	Non-establishment o     ■	f opinion with regard to novelty, in	ventive step and industrial applicability
IV	Lack of unity of inver	ntion	
_ v		t under Article 35(2) with regard to ations suporting such statement	novelty, inventive step or industrial applicability;
VI	☐ Certain documents	cited	
VII	Certain defects in the	e international application	
VIII	☐ Certain observations	on the international application	
Date of su	bmission of the demand	Date o	f completion of this report
16/03/20	000	31.10.	2000
	mailing address of the internation examining authority:	onal Author	ized officer
<b>)</b>	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523	Renc	oth, H
1	Fax: +49 89 2399 - 4465	Teleph	none No. +49 89 2399 8589

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/22395

I. Basis	of the	report
----------	--------	--------

1.	resp	oonse to an invitation	rawn on the basis of (substitute sheets which have been furnished to the receiving Office in on under Article 14 are referred to in this report as "originally filed" and are not annexed to o not contain arnendments.):
	Des	cription, pages:	
	1-19	9	as originally filed
	Cla	ims, No.:	
	1-18	8	as originally filed
2.	The	amendments have	e resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
3.		This report has be considered to go l	een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):
4.	Add	ditional observation	s, if necessary:
•••	No	n.astablishment o	f opinion with regard to novelty, inventive step and industrial applicability
			e claimed invention appears to be novel, to involve an inventive step (to be non-obvious), able have not been examined in respect of:
	⊠	the entire internat	ional application.
		claims Nos	
be	ecau	se:	
			onal application, or the said claims Nos. relate to the following subject matter which does emational preliminary examination (specify):

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/22395

Ø	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	see separate sheet
Ø	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for the said claims Nos

#### ITEM III

The compositions of the present claims are characterized by having a so-called homogeneity number of less than about 0.5 or greater than about 1.

The method for calculating this homogeneity number is described in the application. However, the calculation of this parameter requires an undue burden of testing for any prepared composition. In fact, the present application does not contain any indication upon which compositional features or method of preparation are essential for obtaining the required value of the above mentioned index, all being an indication of the homogenous distribution of a component throughout the granular composition..

The skilled man is thus required to carry out the time consuming calculation of page 3 of the present application for any prepared composition, without knowing in advance whether the prepared composition would fall within the scope of the claims or not. This is undoubtedly un undue burden for the skilled man. Therefore, the present application is considered not to contain sufficient information such that a skilled man could carry out the invention without this undue burden of testing and does not comply therefore with the requirements of Article 5 PCT.

Moreover, according to the present claims it is not required that all ingredients are so distributed throughout the particles that the granulate complies with the required homogeneity number with respect to all ingredients, but it is sufficient that one component has such a distribution. This leads to the absurd that the granular composition may comply with the homogeneity number with respect to an ingredient but not with respect to other ones. Therefore, the scope of the claims is totally unclear and does not clearly and sufficiently define the wished scope.

The process of claim 13 does not help further in identifying suitable compositions, since it does not encompass any specific method of preparation of the granulate, but it just requires that a base granulate formed, e.g. by spray-dried granules and additives, is passed to a mixer, which can be of any type.

The word "about" referred to the numerical limits in the claims draw further uncertainty upon the scope of the claims.

The illustrative examples of the present application confirm that neither the compositional characteristics, nor the process features, are essential for achieving the required homogeneity index.

The presently alleged invention appears therefore to amount rather to the discovery of the dependency of the solubility of a granular detergent composition upon a formula represented by the homogeneity index. However, a discovery is not an invention and as such the requirements of Article 5 PCT are not complied with.

### **PCT**

## WORLD INTELLECTUAL PROPERTY ORGANIZ



#### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:
C11D 17/06, 11/00
A1
(11) International Publication Number: WO 00/18877
(43) International Publication Date: 6 April 2000 (06.04.00)

(21) International Application Number: PCT/US99/22395

(22) International Filing Date: 24 September 1999 (24.09.99)

(30) Priority Data:

PCT/US98/20223 25 September 1998 (25.09.98) US 60/140,088 21 June 1999 (21.06.99) US

(71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): CAPECI, Scott, William [US/US]; 3285 Citation Lane, North Bend, OH 45052 (US). RIDYARD, Mark, William [GB/GB]; 42 Ravenswood Road, Heaton, Newcastle NE6 5TU (GB). MORT, Raul, R., III [GB/GB]; 510 Compton Road, Cincinnati, OH 45215 (US).
- (74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).

(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (Utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: GRANULAR DETERGENT COMPOSITIONS HAVING HOMOGENOUS PARTICLES AND PROCESS FOR PRODUCING SAME

#### (57) Abstract

A detergent composition which has improved solubility or dissolution in laundering solutions, especially in solutions kept at cold temperatures (i.e., less than about 30  $^{\circ}$ C), is provided. The granular detergent composition is aesthetically pleasing to consumers and has improved flowability. The granular detergent composition has a homogeneity number of greater than 1 wherein the homogeneity number is defined by the equation HN =  $X_{bulkr}/X_{part}$ . A process for producing the detergent is also provided.

#### FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia	
AM	Amenia	Fl	Finland	LT	Lithuania	SK	Slovakia	
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal	
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland	
AZ.	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad	
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo	
BB	Barbados	GH	Ghana	MG	Madagascar	T.J	Tajikistan	
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan	
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey	
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago	
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine	
BR BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda	
	Brazii Belarus	IS	Iceland	MW	Malawi	US	United States of America	
BY		IT	Italy	MX	Mexico	UZ	Uzbekistan	
CA	Canada	JP	Japan	NE	Niger	VN	Viet Nam	
CF	Central African Republic	KE	Кепуа	NL	Netherlands	YU	Yugoslavia	
CG	Congo	KG	Kyrgyzstan	NO	Norway	zw	Zimbabwe	
СН	Switzerland	KP	Democratic People's	NZ	New Zealand			
Cl	Côte d'Ivoire	KP	Republic of Korea	PL	Poland			
СМ	Cameroon	*/P	Republic of Korea	PT	Portugal			
CN	China	KR	Kazakstan	RO	Romania			
CU	Cuba	KZ		RU	Russian Federation			
CZ	Czech Republic	rc	Saint Lucia	SD.	Sudan			
DE	Germany	Li	Liechtenstein	SE	Sweden			
DK	Denmark	LK	Sri Lanka	SG SG				
EE	Estonia	LR	Liberia	SU	Singapore			
Į.								
I								_

Inte. utional Application No /US 99/22395

A. CL	ASSIFICA	TION OF	SUBJECT	MATTER	
IPC	7 0	11017	/06	C11D	11/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 92 07932 A (PROCTER & GAMBLE) 14 May 1992 (1992-05-14) page 16, line 3 - line 35: examples 3-10	1-3,13, 14.17,18	
X	GB 2 317 393 A (PROCTER & GAMBLE) 25 March 1998 (1998-03-25) examples	1-3	
X	WO 98 35004 A ( PROCTER & GAMBLE) 13 August 1998 (1998-08-13) page 47, line 25 -page 48, line 16	1-3	
Α	WO 97 10326 A (PROCTER & GAMBLE) 20 March 1997 (1997-03-20) page 12, line 25 -page 13, line 2; tables 1	1,2,4,13	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filling date  "L" document which may throw doubts on pnority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the pnority date claimed	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
28 January 2000	2 5. 02. 2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Ripswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Grittern, A

PATENT COOPERATION TREATY FADEMA From the INTERNATIONAL SEARCHING AUTHORITY NOTIFICATION OF TRANS THE PROCTER & GAMBLE COMPANY THE INTERNATIONAL SEARCH CINCINNATI, OHIO 45217-1087 OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day/month/year) 25/02/2000 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 7628/DQ International filing date International application No. (day/month/year) 24/09/1999 PCT/US 99/22395 Applicant

ı. 🔀	The app	licant is hereby n	otified that the International Search Report has been established and is transmitted herewith.
		f amendments a dicant is entitled,	nd statement under Article 19: if he so wishes, to amend the claims of the International Application (see Rule 46):
	When?	The`time limit fo International So	or filing such amendments is normally 2 months from the date of transmittal of the earch Report; however, for more details, see the notes on the accompanying sheet.
	Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35
	For mo	re detailed instr	uctions, see the notes on the accompanying sheet.
2. [	The app Article 1	plicant is hereby i 17(2)(a) to that ef	notified that no International Search Report will be established and that the declaration under fect is transmitted herewith.
з. [			est against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: r with the decision thereon has been transmitted to the International Bureau together with the to forward the texts of both the protest and the decision thereon to the designated Offices.
			en made yet on the protest; the applicant will be notified as soon as a decision is made.
	urther actio		licant is reminded of the following:
S	If the applic	ant wishes to av	the priority date, the international application will be published by the International Bureau. bid or postpone publication, a notice of withdrawal of the international application, or of the binternational Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the preparations for international publication.
	Vithin 19 mo	onths from the proostpone the entr	iority date, a demand for international preliminary examination must be filed if the applicant y into the national phase until 30 months from the priority date (in some Offices even later).
٧	Vithin 20 mo	onths from the pr	iority date, the applicant must perform the prescribed acts for entry into the national phase s which have not been elected in the demand or in a later election within 19 months from the elected because they are not bound by Chapter II.

Authorized officer

Maurizio Amodeo

Name and mailing address of the International Searching Authority

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

European Patent Office, P.B. 5818 Patentlaan 2

THE PROCTER & GAMBLE COMPANY et al.

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   \*Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added.\*
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be turnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of (Form PCT/ISA/	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/22395	24/09/1999	25/09/1998
Applicant		
THE PROCTER & GAMBLE COMP.	ANY et al.	
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists  X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
Basis of the report		
<ul> <li>a. With regard to the language, the language in which it was filed, unit</li> </ul>	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the
Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	
was carried out on the basis of th	e sequence listing :	nternational application, the international search
1	onal application in written form.	<u> </u>
l <del>=</del> '	ernational application in computer readable for	m.
	o this Authority in written form.	
· —	this Authority in computer readble form.	
international application a	bsequently furnished written sequence listing o as filed has been furnished.	
the statement that the inf furnished	ormation recorded in computer readable form (	is identical to the written sequence listing has been
2. X Certain claims were fou	ind unsearchable (See Box I).	
3. Unity of Invention is lac	king (see Box II).	
4. With regard to the title,		
the text is approved as su		
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as si	ubmitted by the applicant.	
the text has been establis within one month from the	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pub	lished with the abstract is Figure No.	
as suggested by the appl	icant.	None of the figures
because the applicant fai	led to suggest a figure.	
because this figure better	characterizes the invention.	

International application No. PCT/US 99/22395

## INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2. X Claims Nos.: 1-14 (partial) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
	İ
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest  The additional search fees were accompanied by the applicant's protest  No protest accompanied the payment of additional search fees.	est.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-14 (partial)

Present claims contain so many options, variables, possible permutations and provisos

that a lack of clarity within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear and concise, namely for granular detergent compositions made of multi-particle systems, e.g. spray-dried granules and agglomerates (see page 5, lines 8 to 17 of the description). Applicant states that the homogeneity number (hereinafter called HN) as defined in claim 1 and in the description (see page 5, last paragraph to page 7 second paragraph) is the quotient of the compositional homogeneity between particulate admixture components (hereinafter called Xbulk) and the compositional homogeneity within a defined domain structure of the individual particles comprising a specific particulate component (hereinafter called Xpart) or in other words Xbulk is the ratio of the concentration of the selected ingredient in the particle with the lowest non-zero level of that ingredient to the concentration of the selected ingredient in the particle with the highest level of the selected ingredient and Xpart is the ratio of the concentration in the discrete volume with the lowest amount of the selected ingredient to the concentration in the discrete volume of the particle having the highest amount of the selected ingredient.

According to page 6 lines 3 to 4 of the description the selected ingredient can be any component useful in granular detergent compositions, e.g. surfactant, builder, polymer etc. However this means that the value of HN for a given granule would be different for different components which makes a comparison with the state of the art impossible unless it is known on which component the calculation is based on. In order to carry out a meaningful search, a surfactant has been chosen as the selected detergent ingredient for the calculation of HN (see claim 2).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International Application No PCT/US 99/22395

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D17/06 C11D C11D11/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Clid IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 1-3,13,WO 92 07932 A (PROCTER & GAMBLE) X 14,17,18 14 May 1992 (1992-05-14) page 16, line 3 - line 35; examples 3-10 1 - 3GB 2 317 393 A (PROCTER & GAMBLE) χ 25 March 1998 (1998-03-25) examples 1 - 3WO 98 35004 A ( PROCTER & GAMBLE) χ 13 August 1998 (1998-08-13) page 47, line 25 -page 48, line 16 1,2,4,13 WO 97 10326 A (PROCTER & GAMBLE) Α 20 March 1997 (1997-03-20) page 12, line 25 -page 13, line 2; tables -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. X T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance invention "X" document of particular relevance; the claimed invention "E" earlier document but published on or after the international cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docuwhich is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 2 5. 02. 2000 28 January 2000 **Authorized officer** Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Grittern, A

International Application No
PCT/US 99/22395

Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category :	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
alegory			1 2
4 V	US 5 431 857 A (CAPECI SCOTT W) 11 July 1995 (1995-07-11) column 3, line 40 -column 4, line 20;		1,2, 13-17
	claims; examples		
		•	
•			
	·		
		,	
•			
	·		
	·		

information on patent family members

International Application No
PCT/US 99/22395

	nt document - n search report		Publication date		Patent family member(s)	Publication date
WO 9	207932	Α	14-05-1992	US	5108646 A	28-04-1992
		• •	- · • • - · · ·	AU	8949591 A	26-05-1992
				CA	2094831 A,C	27-04-1992
				CN	1061995 A	17-06-1992
				ĊŻ	281939 B	16-04-1997
			ř	ČŽ	9300633 A	13-07-1994
				ËP	0554366 A	11-08-1993
				FΙ	931843 A	23-04-1993
				HŪ	67248 A,B	28-03-1995
				JP	2941422 B	25-08-1999
				JΡ	6502445 T	17-03-1994
			·	ΜX	9101779 A	05-06-1992
				NO	931474 A	25-06-1993
				NZ	240351 A	25-11-1994
				PL	173578 B	31-03-1998
				PT	99337 A	30-09-1992
				SK	39593 A	12-01-1994
			•	TR	25528 A	01-05-1993
				TR	26518 A	15-03-1995
	317393		25-03-1998	 AU	4356597 A	17-04-1998
GD Z	.31/393	^	25 05 1990	EP	0929637 A	21-07-1999
			•	พื้อ	9813463 A	02-04-1998
			12 00 1000			12 00 1000
WU 9	835004	Α	13-08-1998	GB	2321900 A	12-08-1998 23-06-1999
				GB	2332445 A 6149698 A	25-00-1999
				AU	6152098 A	26-08-1998
			•	AU AU	6272298 A	26-08-1998
				AU	6321098 A	26-08-1998
				AU	6322098 A	26-08-1998
				WO	9835002 A	13-08-1998
		•		WO	9835002 A	13-08-1998
				WO	9835005 A	13-08-1998
		•		WO	9835005 A	13-08-1998
	710226		20.02.1007		0610549 4	 06-07-1999
wu 9	710326	Α	20-03-1997	BR .	9610548 A 2232071 A	20-03-1997
			•	CA	1202198 A	16-12-1998
				CN	0876473 A	11-11-1998
				EP		26-10-1999
				JP US	11512473·T 5733862 A	31-03-1998
					3/33602 M	21 02-1330
US 5	431857	Α	11-07-1995	CA	2181242 A	27-07-1995
			,	CN	1143976 A	26-02-1997
				JP	9508162 T	19-08-1997
				WO	9520035 A	27-07-1995

Int. ational Application No
T/US 99/22395

Category	Citation of document, with indication, where appropriate, of the relevant passages	Refevant to claim No.
		nelevant to claim No.
Α	US 5 431 857 A (CAPECI SCOTT W)	1.2
	11 July 1995 (1995-07-11)	1,2, 13-17
	11 July 1995 (1995-07-11) column 3, line 40 -column 4, line 20;	15 17
	claims; examples	
:		
		4
i		
		ļ
Ì		
1		
1		
		[
1		
ł		
-		
ĺ		
1		İ
		ļ
Ì		
İ		ł
1		
		1
1		
		1
1		1
		1
		1
1		
	continuation of second sheet) (July 1992)	Ę.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-14 (partial)

Present claims contain so many options, variables, possible permutations and provisos

that a lack of clarity within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear and concise, namely for granular detergent compositions made of multi-particle systems, e.g. spray-dried granules and agglomerates (see page 5, lines 8 to 17 of the description). Applicant states that the homogeneity number (hereinafter called HN) as defined in claim 1 and in the description (see page 5, last paragraph to page 7 second paragraph) is the quotient of the compositional homogeneity between particulate admixture components (hereinafter called Xbulk) and the compositional homogeneity within a defined domain structure of the individual particles comprising a specific particulate component (hereinafter called Xpart) or in other words Xbulk is the ratio of the concentration of the selected ingredient in the particle with the lowest non-zero level of that ingredient to the concentration of the selected ingredient in the particle with the highest level of the selected ingredient and Xpart is the ratio of the concentration in the discrete volume with the lowest amount of the selected ingredient to the concentration in the discrete volume of the particle having the highest amount of the selected ingredient.

According to page 6 lines 3 to 4 of the description the selected ingredient can be any component useful in granular detergent compositions, e.g. surfactant, builder, polymer etc. However this means that the value of HN for a given granule would be different for different components which makes a comparison with the state of the art impossible unless it is known on which component the calculation is based on. In order to carry out a meaningful search, a surfactant has been chosen as the selected detergent ingredient for the calculation of HN (see claim 2).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

Information on patent family members

Inte

ional Application No

T/US 99/22395 Patent document Publication Patent family Publication cited in search report date member(s) date WO 9207932 Α 14-05-1992 US 5108646 A 28-04-1992 ΑU 8949591 A 26-05-1992 CA 2094831 A.C 27-04-1992 CN 1061995 A 17-06-1992 CZ 281939 B 16-04-1997 CZ9300633 A 13-07-1994 ΕP 0554366 A 11-08-1993 FI 931843 A 23-04-1993 HU 67248 A,B 28-03-1995 JP 2941422 B 25-08-1999 JP 6502445 T 17-03-1994 MX 9101779 A 05-06-1992 NO 931474 A 25-06-1993 NZ 240351 A 25-11-1994 PL 173578 B 31-03-1998 PT 99337 A 30-09-1992 SK 39593 A 12-01-1994 TR 25528 A 01-05-1993 TR 26518 A 15-03-1995 GB 2317393 Α 4356597 A 25-03-1998 ΑU 17-04-1998 EP 0929637 A 21-07-1999 WO 9813463 A 02-04-1998 WO 9835004 Α 13-08-1998 GB 2321900 A 12-08-1998 GB 2332445 A 23-06-1999 ΑU 6149698 A 26-08-1998 ΑU 6152098 A 26-08-1998 AU 6272298 A 26-08-1998 ΑU 6321098 A 26-08-1998 ΑU 6322098 A 26-08-1998 9835002 A WO 13-08-1998 WO 9835003 A 13-08-1998 WO 9835005 A 13-08-1998 WO 9835006 A 13-08-1998 WO 9710326 Α 20-03-1997 BR 9610548 A 06-07-1999 CA 2232071 A 20-03-1997 CN 1202198 A 16-12-1998 ΕP 0876473 A 11-11-1998 JP 11512473 T 26-10-1999 US 5733862 A 31-03-1998 US 5431857 11-07-1995 CA 2181242 A 27-07-1995 CN 1143976 A 26-02-1997 JP 9508162 T 19-08-1997 WO 9520035 A 27-07-1995